



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/658,632  
Source: IFWO  
Date Processed by STIC: 2/2/04

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221**

**Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):  
U.S. Patent and Trademark Office; Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

## RAW SEQUENCE LISTING

DATE: 02/02/2004

PATENT APPLICATION: US/10/658,632

TIME: 09:49:14

Input Set : D:\SBIO-0002 Sequence Listing (10-658,632).txt

Output Set: N:\CRF4\01292004\J658632.raw

4 <110> APPLICANT: Chenchik, Alex  
 6 <120> TITLE OF INVENTION: Methods for Gene Function Analysis  
 9 <130> FILE REFERENCE: SBIO/0002  
 11 <140> CURRENT APPLICATION NUMBER: 10/658,632  
 12 <141> CURRENT FILING DATE: 2003-09-08  
 14 <160> NUMBER OF SEQ ID NOS: 20  
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 43  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: human  
 23 <220> FEATURE:  
 24 <221> NAME/KEY: promoter  
 25 <222> LOCATION: (1)...(7)  
 27 <221> NAME/KEY: misc RNA *no t's*  
 28 <222> LOCATION: (8)...(43) *allowed*  
 29 <223> OTHER INFORMATION: n=a,t,g,c *in an RNA sequence. Use "u" instead.*

W--&gt; 31 &lt;400&gt; 1

W--> 32 ggacgagnnn nnnnnnnnnn nnnnnnnnnn aattcatcta tgt 43

34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 43  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: human  
 39 <220> FEATURE:

40 <221> NAME/KEY: misc RNA *same error*  
 41 <222> LOCATION: (7)...(43)  
 42 <223> OTHER INFORMATION: n=a,t,g,c  
 44 <400> SEQUENCE: 2

W--> 45 cctgctccta gnnnnnnnnn nnnnnnnnnn nnnngtagat aca 43

47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 59  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: human  
 52 <220> FEATURE:

53 <221> NAME/KEY: misc RNA *same*  
 54 <222> LOCATION: (7)...(53)  
 56 <400> SEQUENCE: 3 ↓

57 gatccgatg atctggatcc accaattcaa gagattggtg gatccagatc atctttttg 59

59 <210> SEQ ID NO: 4  
 60 <211> LENGTH: 59  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: human  
 64 <220> FEATURE:

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65 <221> NAME/KEY: misc RNA *same*  
66 <222> LOCATION: (3)...(59)  
68 <400> SEQUENCE: 4  
69 gctactaga cctaggtggt taagtctct aaccacctag gtctagtaga aaaacttaa 59  
71 <210> SEQ ID NO: 5  
72 <211> LENGTH: 75  
73 <212> TYPE: DNA  
74 <213> ORGANISM: human  
76 <220> FEATURE:  
77 <221> NAME/KEY: misc RNA *same*  
78 <222> LOCATION: (7)...(69)  
80 <400> SEQUENCE: 5  
81 gatccggtg atctggatct accaaggctt gttttcaaga gaaacaagtc ttggtggatc 60  
82 cagatcctt ttttg 75  
84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 69  
86 <212> TYPE: DNA  
87 <213> ORGANISM: human  
89 <220> FEATURE:  
90 <221> NAME/KEY: misc RNA *same*  
91 <222> LOCATION: (3)...(59)  
93 <400> SEQUENCE: 6  
94 gctcactaga cctagatggt tcgaaagttc tctttgttca gaaccactag gtctagtaga 60  
95 aaaacttaa 69  
97 <210> SEQ ID NO: 7  
98 <211> LENGTH: 30  
99 <212> TYPE: DNA  
100 <213> ORGANISM: human  
102 <220> FEATURE:  
103 <221> NAME/KEY: unsure  
104 <222> LOCATION: (8)...(21)  
105 <223> OTHER INFORMATION: n=a,t,g,c  
107 <400> SEQUENCE: 7  
108 tgggaaaann nnnnnnnnnn ntttttagag 30  
110 <210> SEQ ID NO: 8  
111 <211> LENGTH: 30  
112 <212> TYPE: DNA  
113 <213> ORGANISM: human  
115 <220> FEATURE:  
116 <221> NAME/KEY: unsure  
117 <222> LOCATION: (13)...(25)  
118 <223> OTHER INFORMATION: n=a,t,g,c  
120 <400> SEQUENCE: 8  
121 accctttttt tcnnnnnnnn nnnnnatctc 30  
123 <210> SEQ ID NO: 9  
124 <211> LENGTH: 31  
125 <212> TYPE: DNA  
126 <213> ORGANISM: human  
128 <220> FEATURE:



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```

193 <220> FEATURE:
194 <221> NAME/KEY: primer_bind
195 <222> LOCATION: (1)...(11)
196 <223> OTHER INFORMATION: Viral vector sequence
198 <400> SEQUENCE: 14
199 cagaagatgc tcacgacgct 20
201 <210> SEQ ID NO: 15
202 <211> LENGTH: 78
203 <212> TYPE: DNA
204 <213> ORGANISM: human
206 <220> FEATURE:
207 <221> NAME/KEY: misc RNA
208 <222> LOCATION: (27)...(52)
209 <223> OTHER INFORMATION: n=a,t,g,c
211 <400> SEQUENCE: 15
W--> 212 acgcaggtgt agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt 60
213 cttctacgag tgctgcga 78
215 <210> SEQ ID NO: 16
216 <211> LENGTH: 78
217 <212> TYPE: DNA
218 <213> ORGANISM: human
220 <220> FEATURE:
221 <221> NAME/KEY: misc RNA
222 <222> LOCATION: (27)...(52)
223 <223> OTHER INFORMATION: n=a,t,g,c
225 <400> SEQUENCE: 16
W--> 226 tgcgtccaca tegtcttctg atttttannnn nnnnnnnnnn nnnnnnnnnn nnaaaataca 60
227 gaagatgctc acgacgct 78
229 <210> SEQ ID NO: 17
230 <211> LENGTH: 30
231 <212> TYPE: DNA
232 <213> ORGANISM: human
234 <220> FEATURE:
235 <221> NAME/KEY: misc RNA
236 <222> LOCATION: (5)...(30)
237 <223> OTHER INFORMATION: n=a,t,g,c
239 <400> SEQUENCE: 17
W--> 240 aaagnnnnnn nnnnnnnnnn nnnnnnnnnn 30
242 <210> SEQ ID NO: 18
243 <211> LENGTH: 30
244 <212> TYPE: DNA
245 <213> ORGANISM: human
247 <220> FEATURE:
248 <221> NAME/KEY: misc RNA
249 <222> LOCATION: (1)...(26)
250 <223> OTHER INFORMATION: n=a,t,g,c
252 <400> SEQUENCE: 18
W--> 253 nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa 30
255 <210> SEQ ID NO: 19

```

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256 &lt;211&gt; LENGTH: 44

257 &lt;212&gt; TYPE: DNA

258 &lt;213&gt; ORGANISM: human

260 &lt;220&gt; FEATURE:

261 &lt;221&gt; NAME/KEY: mRNA

262 &lt;222&gt; LOCATION: (9)...(35)

263 &lt;223&gt; OTHER INFORMATION: n=a, t, g, c

265 &lt;400&gt; SEQUENCE: 19

W--&gt; 266 tgggaaaagn nnnnnnnnnn nnnnnnnnnn nnnnnnttttt agag 44

268 &lt;210&gt; SEQ ID NO: 20

269 &lt;211&gt; LENGTH: 44

270 &lt;212&gt; TYPE: DNA

271 &lt;213&gt; ORGANISM: human

273 &lt;220&gt; FEATURE:

274 &lt;221&gt; NAME/KEY: misc RNA

275 &lt;222&gt; LOCATION: (9)...(35)

276 &lt;223&gt; OTHER INFORMATION: n=a, t, g, c

278 &lt;400&gt; SEQUENCE: 20

W--&gt; 279 accctttttn nnnnnnnnnn nnnnnnnnnn nnnnnnaaaaa tctc 44

RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28  
 Seq#:1; N Pos. 29,30  
 Seq#:2; N Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31  
 Seq#:2; N Pos. 32,33,34  
 Seq#:7; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21  
 Seq#:8; N Pos. 12,14,15,16,17,18,19,20,21,22,23,24,25  
 Seq#:11; N Pos. 27,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
 Seq#:11; N Pos. 37,38,39,40,41,42  
 Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
 Seq#:13; N Pos. 37,38,39,40,41,42  
 Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
 Seq#:15; N Pos. 47,48,49,50,51,52  
 Seq#:16; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
 Seq#:16; N Pos. 47,48,49,50,51,52  
 Seq#:17; N Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25  
 Seq#:17; N Pos. 26,27,28,29,30  
 Seq#:18; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
 Seq#:18; N Pos. 24,25,26  
 Seq#:19; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
 Seq#:19; N Pos. 30,31,32,33,34,35  
 Seq#:20; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
 Seq#:20; N Pos. 30,31,32,33,34,35